ADDENDA NUMBER 1

NORTH END SANITARY SEWER IMPROVENTS

ISSUED May 3, 2013

1. Remove the Special Provisions and Standards located after page 114 and ending before page 115, the NOTICE OF AWARD. Replace with the following Special Provisions and Standards. Mark receipt of Addenda Number 1 on page 18, BID FOR UNIT PRICE CONTRACTS.

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for the Road and Bridge Construction", adopted January 1, 2012, (hereinafter referred to as the Standard Specifications); the "Manual of Test Procedures for Materials" in effect on the date of the invitation for bids; the Division 1 General Requirements and Covenants; the Division II Technical Specifications; the "Standard Specifications for Water and Sewer Main Construction in Illinois", July 2009 edition; and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein apply to and govern the construction of this project and in case of conflict with any part or parts of said specifications, the said special provisions shall take precedence and shall govern.

SCOPE OF WORK

This project shall consist of storm water improvements at the detention pond located near Walnut and Sobieski Streets and sewer separation on Crosat Street, from 15th Street north past Roosevelt Road. Work shall include removal of existing storm sewer/culvert, installation of storm sewer and drainage structures, channel armoring, landscaping and work appurtenant thereunto.

SUBMITTALS

The Contractor shall provide four (4) identical sets of submittal information to the Engineer for review and approval at least two (2) weeks prior to commencement of construction activities. Submittal information generally includes product information, catalog pages, manufacturer's instruction, product warranties, specifications, samples, shop drawings, and proposed substitutions. At a minimum, the following items shall require submittal to the Engineer:

- Project Schedule — The Contractor shall submit an initial project schedule. This schedule, along with percentage of completion, shall be revised and submitted along with each application for payment.
- Major Components — Specifications for all major components such as storm sewer, bedding material, reinforcement mat and Drainage Structure.

If a substitution is proposed, materials or equipment of other supplies may be accepted by the Engineer if sufficient information is submitted by the Contractor to allow the Engineer to determine that the material or equipment proposed is equivalent or equal to that named. However, the burden of proof as to the type, function, and quality of any such substitute material or equipment shall reside with the Contractor.

GUARANTEE

All materials and equipment shall be guaranteed for a period of one (1) year from the date of acceptance by the Owner. Upon receipt of notice from the Owner of failure of any part of the system during the guarantee period, new replacement parts shall be furnished and installed by the Contractor at no additional cost to the City of LaSalle.

STORM WATER POLLUTION PREVENTION PLAN

During the course of the construction, the Contractor must comply with the National Pollution Discharge Elimination System Storm Water Rules and Regulations. Contactor must comply with these regulations and any other rules set forth by the USEPA and IEPA including required inspections, maintenances and reporting. This work will not be paid for separately but shall be considered incidental to the contract.

TRAFFIC CONTROL

Traffic Control shall be in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, the Supplemental Specifications, the applicable guidelines contained in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, any special details and Highway Standards contained herein and in the plans, the Traffic Specifications and the Special Provisions contained herein.

Special attention is called to Articles 107.09 and 107.14 of the Standard Specifications for Road and Bridge Construction and the following Highway Standards relating to traffic control:

701501	701901	BLR 17-3
701801	701301	

The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other traffic control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Article 107.14 of the Standard Specifications and the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways and the attached special provisions.

If the contract does not include a pay item for Traffic Control and Protection, it will be considered incidental to the contract.

SEEDING, CLASS 1A (SPECIAL)

This work shall consist of preparing the ground surface, fertilizing the areas to be seeded and furnishing and placing seed and mulch. Mulch, Method 2, procedure 1 or 2 shall be used and shall not be paid for separately. The locations to be seeded shall be those areas shown on the plans. All work shall be in accordance with the applicable portions of Section 211, 250 and 251 of the Standard Specifications. The typical pay width shall be as detailed in the plans or as directed by the Engineer.

270 pounds of fertilizer nutrients per acre shall be applied at a 1:1:1 ratio as follows:

1. Nitrogen Fertilizer Nutrient 90 lb/acre
2. Phosphorus Fertilizer Nutrient 90 lb/acre
3. Potassium Fertilizer Nutrient 90 lb/acre

Watering shall be as specified in the Standard Specifications and shall be the contractor's responsibility to guarantee the growth of the seed regardless of the number of waterings required.

This work shall be measured in place and shall be paid for at the contract unit price per SQUARE YARD for SEEDING, CLASS 1A (SPECIAL), which price shall be full compensation for all labor, equipment, and material to complete the work as specified in these special provisions.

STORM SEWERS, TYPE 1, REINFORCED CONCRETE, 12" WATERMAIN QUALITY

Water tight gaskets shall be used at locations where the existing water main and proposed storm sewer do not meet the horizontal or vertical separation requirements as detailed in the "Standard Specifications for Water and Sewer Main Construction in Illinois", July 2009 edition.

These items shall be paid for at the contract unit price per FOOT of STORM SEWERS, TYPE 1, REINFORCED CONCRETE, 12" WATERMAIN QUALITY.

CONNECT PROPOSED 12" PIPE TO EXISTING STRUCTURE

This work includes the connection of the proposed storm sewers to the existing structures at locations shown on the plans. The proposed connection shall be neatly cut and the area between the cut out and sewer filled with brick and mortar in accordance with Section 1042.

This will be paid for at the contract unit price per EACH for CONNECT PROPOSED 12" PIPE TO EXISTING STRUCTURE, which includes all work specified herein.

PAVEMENT REPLACEMENT

Where existing pavement is to be removed due to the installation of storm sewer, it shall be removed to a straight sawed joint and restored with either eight inches (8") of Aggregate Base Course Type B, an application of Bituminous Materials (Prime Coat) at a rate of 0.30 gallons per square yard, two and one-half inches (2 1/2") of Hot-Mix Asphalt Binder IL-19mm and one and one-half inches (1 1/2") of Hot-Mix Asphalt Surface Course, Mix C, N50 or with four inches (4") of Aggregate Base Course Type B and eight inches (8") of PC Concrete Pavement . The replacement pay width shall be no greater than that allowed the typical maximum storm sewer trench widths (i.e. 18" to 36" greater than the outside diameter of the pipe), plus 1 foot either side or as directed by the Engineer. Aggregate base course will only be required to be replaced above the sewer trench area only and not the 1' additional width outside the trench, assuming no contamination occurs during excavation operations.

Pavement replacement shall be measured in place and the areas computed in square yards. The area measured shall be the actual areas required as ordered by the Engineer. If additional pavement is removed or damaged due to the negligence on the part of the Contractor, the additional quantities shall not be measured for payment, but shall be done at the Contractor's expense.

Pavement replacement will be paid for at the contract unit price per SQUARE YARD for PAVEMENT REPLACEMENT, which price will be payment in full for all labor, materials and equipment necessary for the aggregate base course, bituminous material (prime coat), hot-mix asphalt surface course or PC concrete replacement, and disposing of the unsuitable material, all as directed by the Engineer and as specified herein.

P.C. CONCRETE SIDEWALK REPLACEMENT

This item shall consist of the removal and replacement of Portland Cement Concrete sidewalk along Crosat Street

Sidewalk removal and replacement shall be completed in accordance with Section 440 and 424 of the State of Illinois Standard Specifications for Road and Bridge Construction. The sidewalk shall be installed on a 3" cushion of aggregate (CA 6).

At driveway locations the proposed sidewalk shall be increased in thickness to six-inches (6") and paid for as P.C. Concrete Driveway Removal and Replacement.

This work will be paid for at the contract unit price per SQUARE FOOT for P.C. CONCRETE SIDEWALK REPLACEMENT.

COMBINATION CONCRETE CURB AND GUTTER REPLACEMENT

This item shall consist of the removal and replacement of combination concrete curb and gutter, in accordance with Sections 440 and 606 of the Standard Specifications, and the detail of the proposed curb and gutter by means of a sawed joint (straight) at locations as designated by the Engineer. The replaced curb and gutter shall be of the same type and size as the removed section.

All curb and gutter shall have sawcut contraction joints two (2") inches deep at 20' intervals. This sawcutting shall be done no later than 24 hours after the curb has been poured. Expansion and construction joints shall be as directed by the Standard Specifications and Standard Drawings. One inch (1") preformed joint filler shall be placed at the ends of all replaced sections.

All material required, including expansion material, and any labor and incidentals for a complete job shall be paid for at the contract unit price bid per FOOT of COMBINATION CONCRETE CURB AND GUTTER REPLACEMENT.

P.C. CONCRETE DRIVEWAY PAVEMENT REPLACEMENT

Where existing concrete driveways are to be removed as a result of the storm sewer installation, they shall be removed to a straight sawed joint and the removed driveway restored with a minimum of six inches (6") of P. C. Concrete. The maximum width shall be two (2') feet wider than the maximum trench width on the property side and to the back of curb on the street side unless otherwise directed by the Engineer. This work shall be done in conformance with Sections 440 and 423 of the Standard Specifications. The saw cutting will be considered incidental to the driveway removal. The removal shall include whatever depth is necessary to achieve the desired replacement thickness.

This work will be paid for at the contract unit price per SQUARE YARD for P.C. CONCRETE DRIVEWAY PAVEMENT REPLACEMENT.

CONNECT EXISTING TILE TO PROPOSED STORM SEWER

When field tiles are encountered during construction, the upstream end shall be connected to the proposed storm sewer as detailed in the plans. The downstream end of the field tile shall be plugged and mortared. The contractor shall remove the existing field tile to a minimum of two (2) feet beyond either side of the trench. Contractor shall connect the field tile to the proposed storm sewer as detailed. Before making the connection, the Contractor shall place and compact trench backfill to the bottom of the field tile. All work shall be inspected by the Engineer before covering.

This item shall be paid for at the Contract Unit Price per EACH for CONNECT EXISTING TILE TO PROPOSED STORM SEWER. At this time it is not possible to estimate how many crossings will be encountered, therefore bid quantities are only provided to establish a unit price.

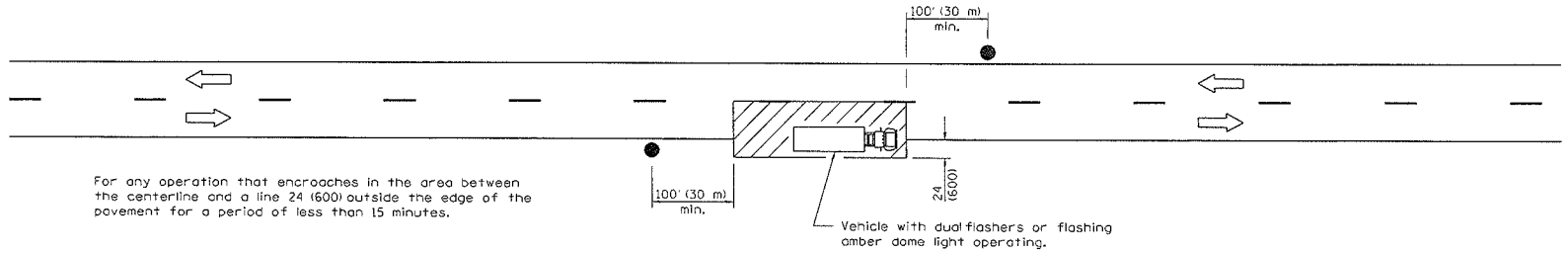
WATER SERVICE REPAIR

When water services are damaged during construction, the contractor shall first notify both the engineer and property owner of situation. The contractor shall then repair water service using approved couplings and fittings. Type K copper tubing shall be used for repairs. All work shall be inspected by the Engineer before covering.
This item shall be paid for at the Contract Unit Price per EACH for WATER SERVICE REPAIR. At this time it is not possible to estimate how many water services will be encountered, therefore bid the quantity is only provided to establish a unit price.

PLUG EXISTING SEWER

This work shall consist of the plugging of storm sewers shown on the plan with brick and mortar in accordance with Section 550.05 of the Standard Specifications.

This will be paid for at the contract unit price per EACH for PLUG EXISTING SEWER which includes all work specified herein.

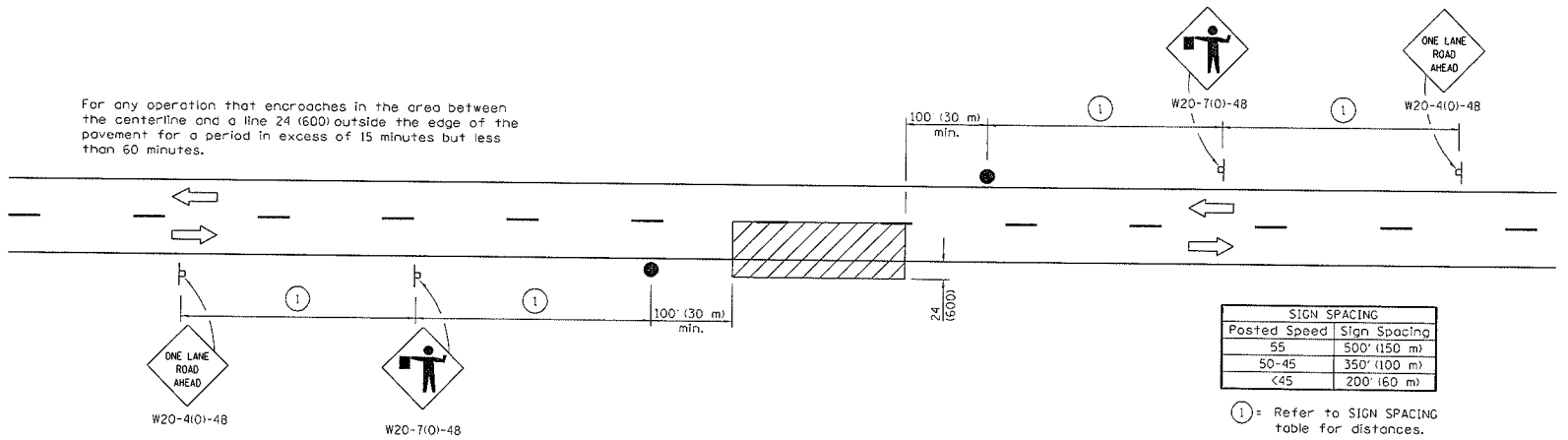


For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period of less than 15 minutes.

Vehicle with dual flashers or flashing amber dome light operating.

For any operation that is more than 24 (600) outside the edge of the pavement for a period of less than 60 minutes.

Vehicle with dual flashers or flashing amber dome light operating.



For any operation that encroaches in the area between the centerline and a line 24 (600) outside the edge of the pavement for a period in excess of 15 minutes but less than 60 minutes.

SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

(1) = Refer to SIGN SPACING table for distances.

TYPICAL APPLICATIONS

Marking patches
Field survey
String line
Utility operations
Cleaning up debris on pavement

SYMBOLS

Work area

Sign on portable or permanent support

Flagger with traffic control sign

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

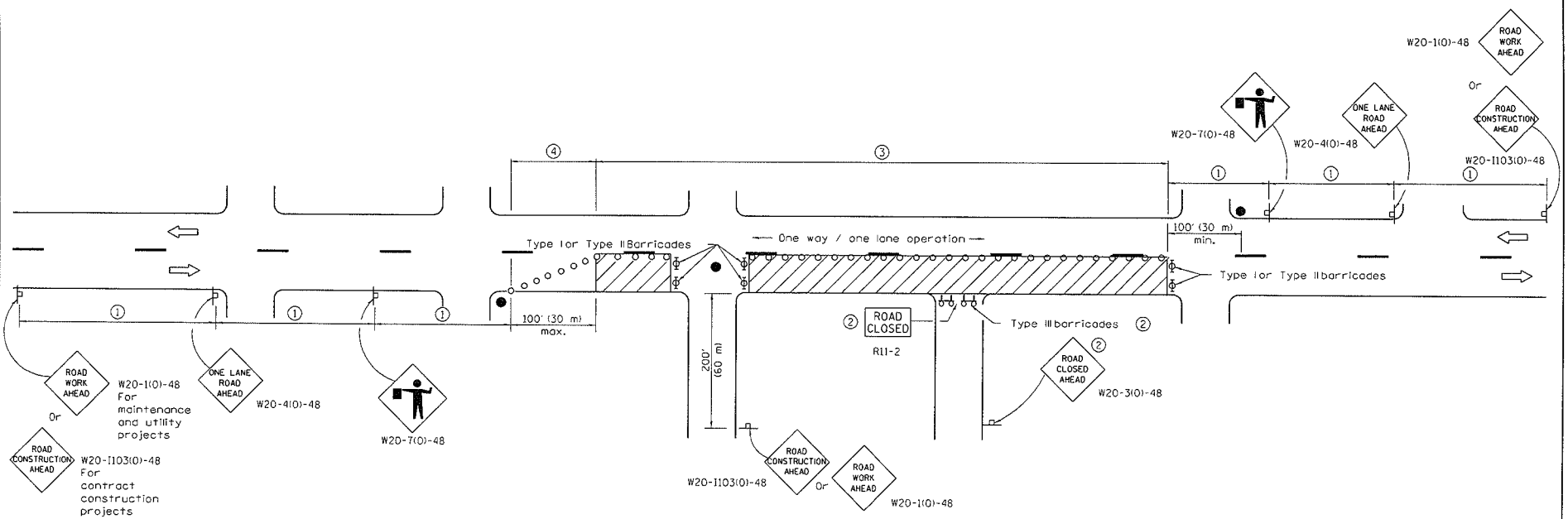
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

SYMBOLS

- Work area
- Cone, drum or barricade (not required for moving operations)
- Sign on portable or permanent support
- Flagger with traffic control sign
- Barricade or drum with flashing light
- Type III barricade with flashing lights

(1) Refer to SIGN SPACING TABLE for distances.

(2) For approved sideroad closures.

(3) Cones at 25' (8 m) centers for 250' (75 m). Additional cones may be placed at 50' (15 m) centers. When drums or Type I or Type II barricades are used, the interval between devices may be doubled.

(4) Cones, drums or barricades at 20' (6 m) centers.

GENERAL NOTES

This Standard is used where at any time, day or night, any vehicle, equipment, workers or their activities encroach on the pavement requiring the closure of one traffic lane in an urban area.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2011
ENGINEER OF SAFETY ENGINEERING

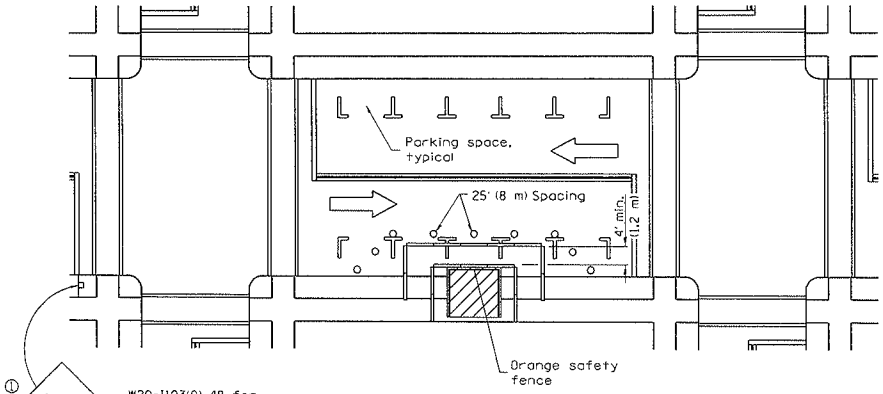
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to
	English (metric).
	Corrected sign No.'s.

URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

STANDARD 701501-06



① ROAD CONSTRUCTION AHEAD — W20-1103(0)-48 for contract construction projects

Or

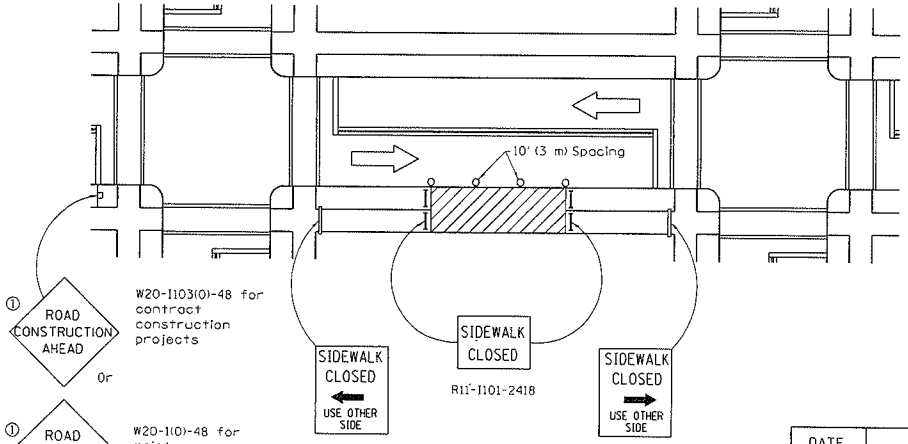
① ROAD WORK AHEAD — W20-1(0)-48 for maintenance and utility projects

SIDEWALK DIVERSION

① Omit whenever duplicated by road work traffic control.

SYMBOLS

- Work area
- Sign on portable or permanent support
- Barricade or drum
- Cone, drum or barricade
- Type III barricade
- Detectable pedestrian chanellizing barricade



① ROAD CONSTRUCTION AHEAD — W20-1103(0)-48 for contract construction projects

Or

① ROAD WORK AHEAD — W20-1(0)-48 for maintenance and utility projects

SIDEWALK CLOSURE

GENERAL NOTES

This Standard is used where, at any time, pedestrian traffic must be rerouted due to work being performed.

This Standard must be used in conjunction with other Traffic Control & Protection Standards when roadway traffic is affected.

Temporary facilities shall be detectable and accessible.

The temporary pedestrian facilities shall be provided on the same side of the closed facilities whenever possible.

The SIDEWALK CLOSED / USE OTHER SIDE sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.

Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2012
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

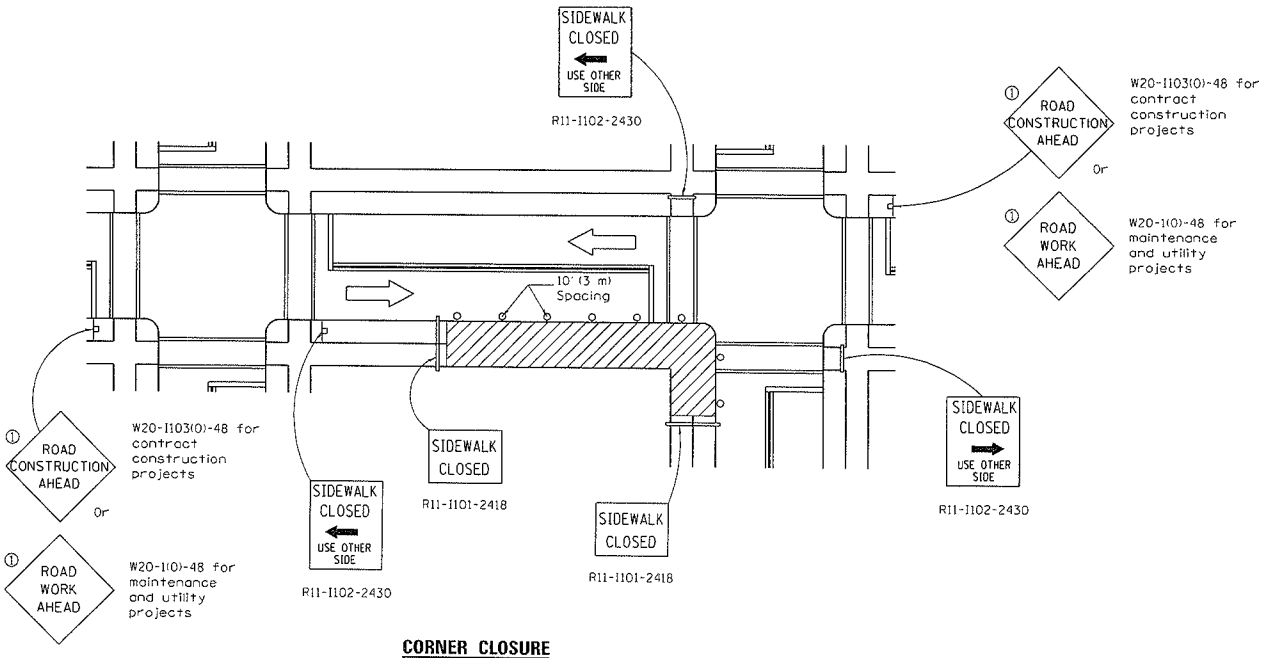
ISSUED 1-1-97

DATE	REVISIONS
1-1-12	Added SIDEWALK DIVERSION.
	Modified appearance of
	plan views. Renamed Std.
1-1-09	Switched units to
	English (metric),
	702001 to 701901.

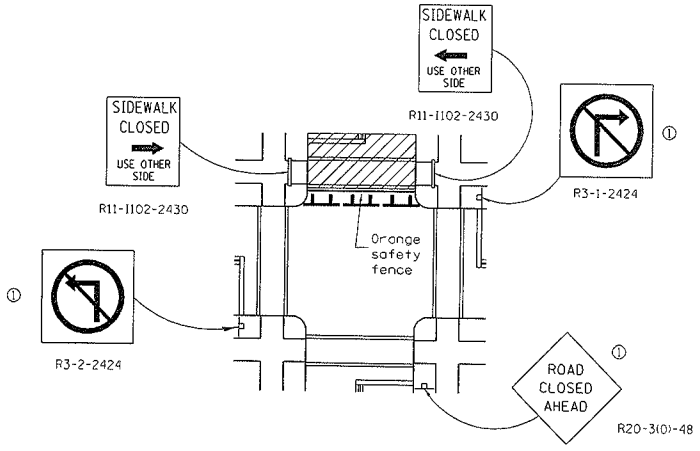
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 1 of 2)

STANDARD 701801-05



CORNER CLOSURE



CROSSWALK CLOSURE

Illinois Department of Transportation

APPROVED January 1, 2012
ENGINEER OF SAFETY ENGINEERING

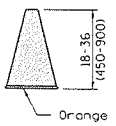
APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

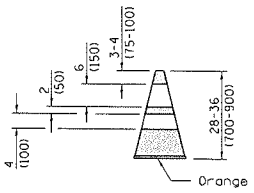
SIDEWALK, CORNER OR CROSSWALK CLOSURE

(Sheet 2 of 2)

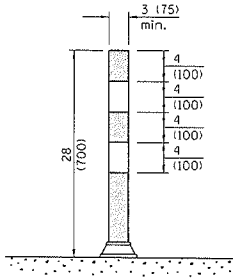
STANDARD 701801-05



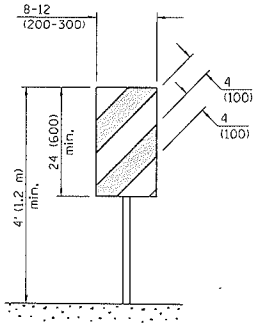
CONE



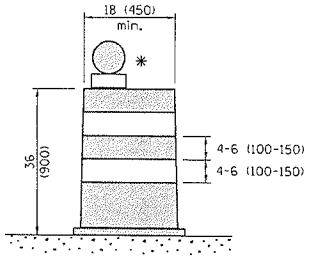
REFLECTORIZED CONE



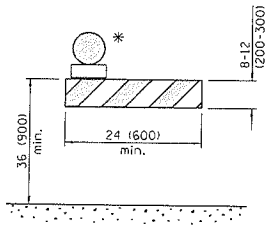
FLEXIBLE DELINEATOR



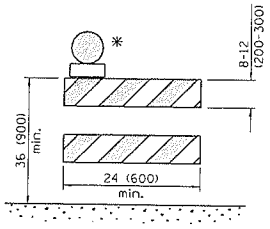
VERTICAL PANEL
POST MOUNTED



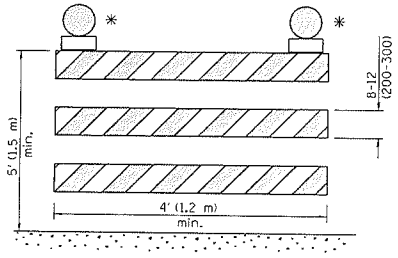
DRUM



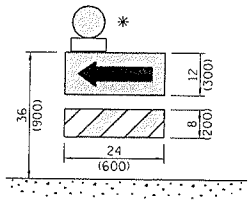
TYPE I BARRICADE



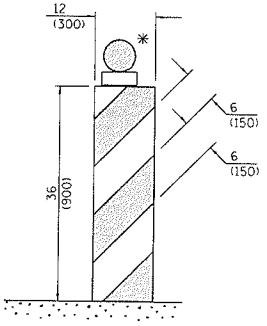
TYPE II BARRICADE



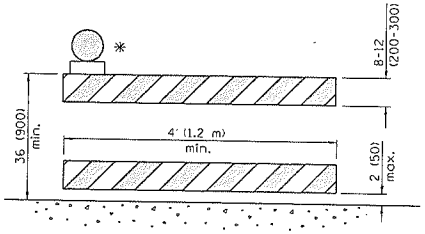
TYPE III BARRICADE



DIRECTION INDICATOR BARRICADE



VERTICAL BARRICADE



DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2012
ENGINEER OF OPERATIONS

APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

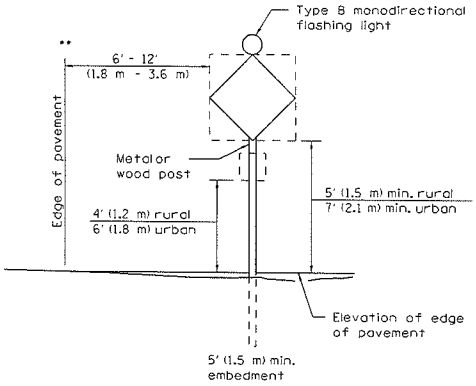
ISSUED 1-1-97

DATE	REVISIONS
1-1-12	Added DETECTABLE PEDESTRIAN
	CHANNELIZING BARRICADE.
1-1-09	Switched units to
	English (metric). Omitted
	light on vertical panel.

TRAFFIC CONTROL DEVICES

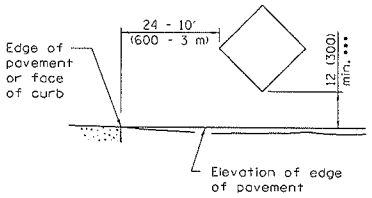
(Sheet 1 of 3)

STANDARD 701901-02



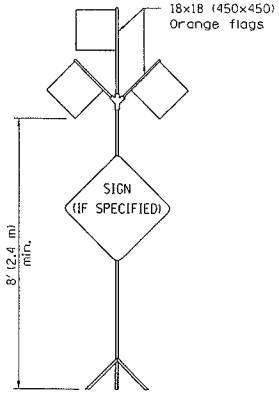
POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

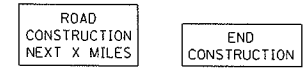


SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen by motorists.



HIGH LEVEL WARNING DEVICE



G20-1(10)-6036 G20-2a(10)-6024

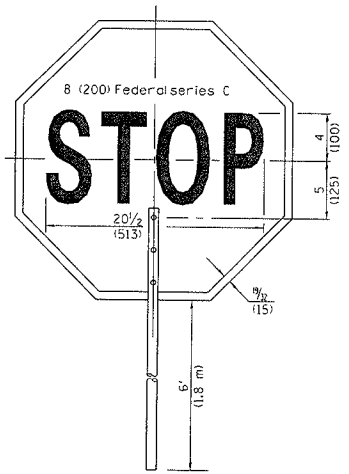
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

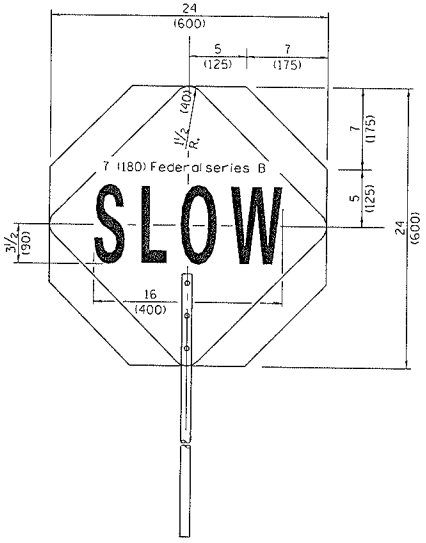
END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



FRONT SIDE



REVERSE SIDE

FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation

APPROVED January 1, 2012
ENGINEER OF OPERATIONS

APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

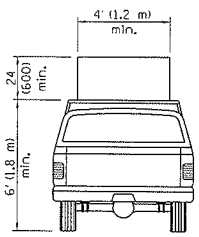
ISSUED 1-1-97

All dimensions are in inches (millimeters) unless otherwise shown.

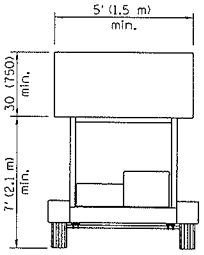
TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

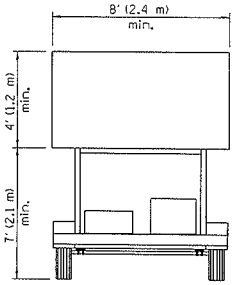
STANDARD 701901-02



TYPE A ROOF MOUNTED

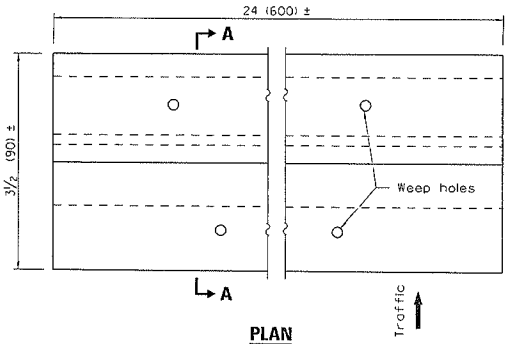


TYPE B ROOF OR TRAILER MOUNTED

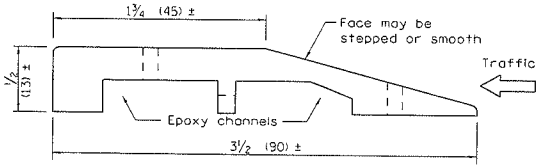


TYPE C TRAILER MOUNTED

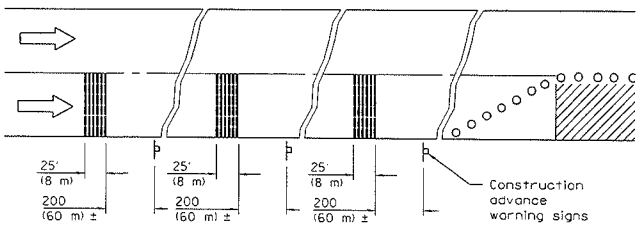
ARROW BOARDS

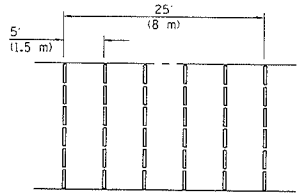


PLAN



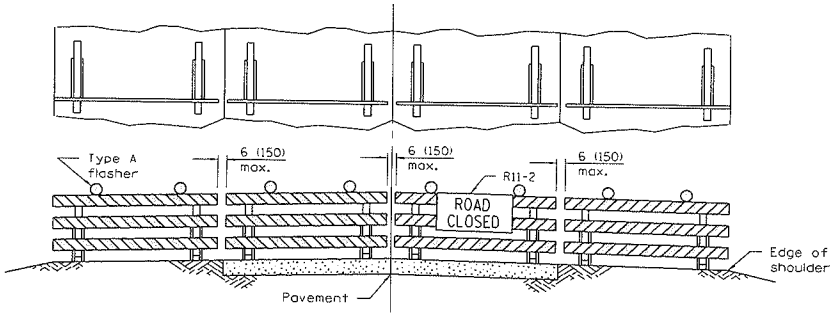
SECTION A–A





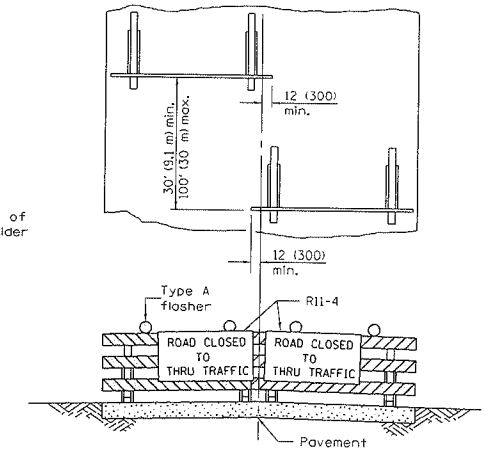
TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2012
ENGINEER OF OPERATIONS

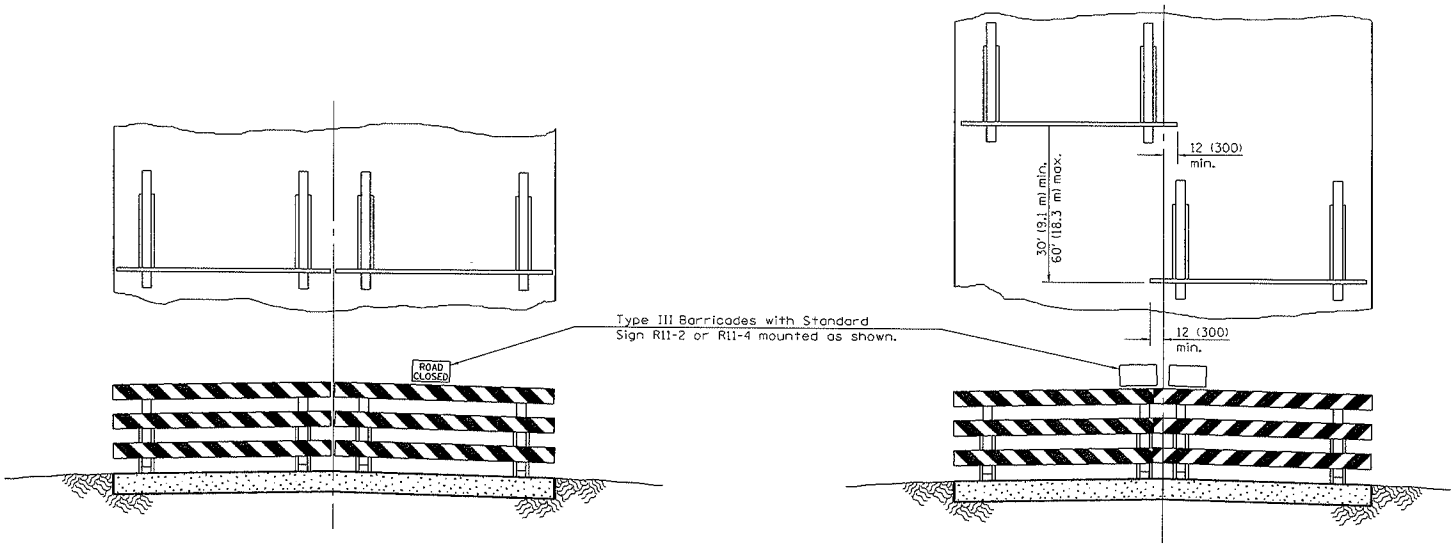
APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-12

TRAFFIC CONTROL DEVICES

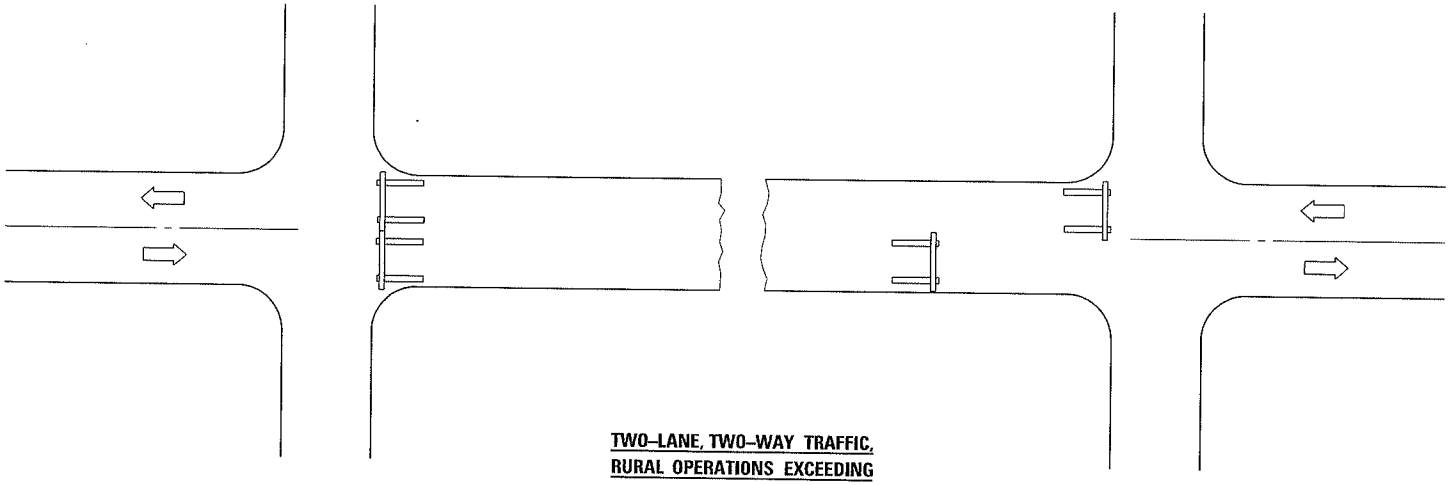
(Sheet 3 of 3)

STANDARD 701901-02



Resident traffic and day labor force's equipment to use road shoulder for passing barricade.

Use when shoulders are too narrow for passage of traffic.



TWO-LANE, TWO-WAY TRAFFIC, RURAL OPERATIONS EXCEEDING ONE DAYLIGHT PERIOD

GENERAL NOTES

Type III barricades to be width of pavement only.

Reflectorized striping shall appear on both sides of barricades. Barricades shall be positioned so that stripes slope downward toward the side on which traffic is to pass.

Although not shown, advance warning signs with minimum dimensions of 36x36 (900x900) and black legends on orange reflectorized backgrounds shall be utilized where needed.

This case is for use on rural local roads where the local authority considers this protection to be appropriate for the specific job conditions.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2009
ENGINEER OF LOCAL ROADS AND STREETS

APPROVED January 1, 2009
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-09

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-98	Rev. "R11-1" to "R11-4".
	Rev. 4th General Note.

TRAFFIC CONTROL DEVICES – DAY LABOR CONSTRUCTION

STANDARD B.L.R. 17-4

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for the Road and Bridge Construction", adopted January 1, 2012, (hereinafter referred to as the Standard Specifications); the "Manual of Test Procedures for Materials" in effect on the date of the invitation for bids; the Division 1 General Requirements and Covenants; the Division II Technical Specifications; the "Standard Specifications for Water and Sewer Main Construction in Illinois", July 2009 edition; and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheet included herein apply to and govern the construction of this project and in case of conflict with any part or parts of said specifications, the said special provisions shall take precedence and shall govern.

SCOPE OF WORK

This project shall consist of storm water improvements at the detention pond located near Washington and 23rd Streets. Work shall include removal of existing storm sewer/culvert, installation of storm sewer and drainage structures, channel armoring, landscaping and work appurtenant thereunto.

SUBMITTALS

The Contractor shall provide four (4) identical sets of submittal information to the Engineer for review and approval at least two (2) weeks prior to commencement of construction activities. Submittal information generally includes product information, catalog pages, manufacturer's instruction, product warranties, specifications, samples, shop drawings, and proposed substitutions. At a minimum, the following items shall require submittal to the Engineer:

- Project Schedule – The Contractor shall submit an initial project schedule. This schedule, along with percentage of completion, shall be revised and submitted along with each application for payment.
- Major Components – Specifications for all major components such as storm sewer, bedding material, reinforcement mat and Drainage Structure.

If a substitution is proposed, materials or equipment of other supplies may be accepted by the Engineer if sufficient information is submitted by the Contractor to allow the Engineer to determine that the material or equipment proposed is equivalent or equal to that named. However, the burden of proof as to the type, function, and quality of any such substitute material or equipment shall reside with the Contractor.

GUARANTEE

All materials and equipment shall be guaranteed for a period of one (1) year from the date of acceptance by the Owner. Upon receipt of notice from the Owner of failure of any part of the system during the guarantee period, new replacement parts shall be furnished and installed by the Contractor at no additional cost to the City of LaSalle.

STORM WATER POLLUTION PREVENTION PLAN

During the course of the construction, the Contractor must comply with the National Pollution Discharge Elimination System Storm Water Rules and Regulations. Contactor must comply with these regulations and any other rules set forth by the USEPA and IEPA including required inspections, maintenances and reporting. This work will not be paid for separately but shall be considered incidental to the contract.

DUST CONTROL

The contractor shall be responsible for controlling the dust and air-borne dirt generated by his/her construction activities.

The implementation of dust control procedures shall be required if wind and dry soil conditions reduce visibility on adjacent roads and property. Concerns for health and safety to the public using adjacent facilities will be grounds for the implementation of a dust control plan. When circumstances warrant, a specific dust control plan shall be developed. The contractor and the engineer shall review the nature and extent of dust generating activities and cooperatively develop specific types of control techniques appropriated to that specific situation. Sample techniques that may warrant consideration include such measures as:

1. Minimize track out of soil onto nearby publicly traveled roads.
2. Reduce vehicle speed on unpaved surfaces.
3. Cover haul vehicles.
4. Apply chemical dust suppressants or water to exposed surfaces, particularly to surfaces on which construction vehicles travel.

Dust control measures as indicated in the Dust Control Plan, or as directed by the engineer shall be readily available for use on the project site. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

TRAFFIC CONTROL

Traffic Control shall be in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, the Supplemental Specifications, the applicable guidelines contained in the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways, any special details and Highway Standards contained herein and in the plans, the Traffic Specifications and the Special Provisions contained herein.

Special attention is called to Articles 107.09 and 107.14 of the Standard Specifications for Road and Bridge Construction.

The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other traffic control devices as may be necessary for the purpose of regulating, warning or guiding traffic. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Article 107.14 of the Standard Specifications and the Illinois Manual on Uniform Traffic Control Devices for Streets and Highways and the attached special provisions.

If the contract does not include a pay item for Traffic Control and Protection, it will be considered incidental to the contract.

TREE REMOVAL

This work shall consist of removing existing trees and brush, regardless of size, from within and immediately adjacent to the existing detention basin below elevation 83.5'. Trees above elevation 83.5' shall remain, and shall be protected from damage. All work shall be in accordance with the applicable portions of Section 201 of the Standard Specifications.

This work shall be measured in place and shall be paid for at the contract unit price per ACRE for TREE REMOVAL, which price shall be full compensation for all labor, equipment, and material to remove

complete the work as specified in these special provisions, including off-site disposal of removed vegetation.

TURF REINFORCEMENT MAT

This work shall consist of furnishing and placing turf reinforcement mat atop the seeded areas of the existing overflow weir for the detention pond, to a height of 42" above the overflow invert, as indicated on the plans and directed by the Engineer. Turf reinforcement mat shall be "SC250" Permanent Turf Reinforcement Mat by North American Green, or approved equal. The turf reinforcement mat shall be installed in accordance with the manufacturer's recommendation and Section 251 of the Standard Specifications.

The cost of this work, including all equipment, labor and materials required for complete installation, will be paid for at the contract unit price bid per SQUARE YARD of TURF REINFORCEMENT MAT.

TEMPORARY DITCH CHECK

This work should be according to applicable IDOT Specifications Sections 280 and 283. All labor, materials, and equipment (including but not limited to filter fabric, wood or metal posts, excelsior blanket) necessary to complete the work as shown on the plans and on the standard drawing will be paid per FOOT for TEMPORARY DITCH CHECK.

PERIMETER EROSION BARRIER

This work shall consist of constructing silt filter fence at locations shown in the contract drawings and/or as directed by the Engineer for the purposes of preventing erosion of construction site materials into drainage ways. All work shall be performed in accordance with the applicable articles of Section 280 of the Standard Specifications, and in accordance with the detail drawings and notes on the erosion control plans. Silt Fence shall be installed as directed by the resident engineer.

The Contractor shall be responsible for monitoring the condition of all silt fences as the construction proceeds, and shall maintain them in proper working order for the duration of the project. All silt fences shall be removed and properly disposed of, and excavated areas restored to their original condition, after the sewer construction and backfill operations are completed.

Measurement for payment for silt fence shall be along the centerline of fence installed. The cost for all work required, including excavation of post holes, fence posts, geotextile fabric, fabric anchorage materials, and fence maintenance and removal shall be included in the contract unit price bid per FOOT for PERIMETER EROSION BARRIER.

STONE RIPRAP

Stone RipRap RR-6 shall be as designated on the plans, in accordance with Section 1005. Riprap shall be placed in accordance with Section 281; however, thickness of the material shall be 32". Filter fabric shall be paid for separately and placed in accordance with Section 282. Riprap shall be material type A.

The cost of this work shall be paid for the contract unit price bid per SQUARE YARD of STONE RIPRAP, CLASS RR-6.

CONNECTING EXISTING STORM SEWER TO PROPOSED STRUCTURES

This work shall consist of connection of the existing 66" CMP storm sewer to the proposed storm manhole. As indicated on the plans and/or directed by the engineer, the existing 66" CMP shall be removed to a location where the pipe is structurally sound. A new 7' diameter manhole will be installed adjacent downstream of the 66" CMP. A section of 60" RCP storm sewer will be connected to the new

manhole, with the bell abutted to the exposed face of the 66" CMP. Concrete collar, Class SI will be installed to connect the new 60" RCP and the 66" CMP, as detailed in the plans.

The cost of this work, including the 60" RCP storm sewer connection, concrete collar and all equipment, labor and materials required for complete installation, will be paid for at the contract unit price bid per EACH for CONNECT EXISTING 66" CMP TO PROPOSED STRUCTURE. The 7' manhole shall be paid for separately.

DRAINAGE STRUCTURE, SPECIAL

This work shall consist of furnishing and installing a 14'x5' precast reinforced concrete drainage structure in accordance with Sections 540 of the Standard Specifications. The concrete box structure shall be designed according to the AASHTO specifications, shown on the plans and shall be produced according to the Department's latest Policy Memorandum "Quality Control/ Quality Assurance Program for Precast Products". If cast-in-place box structure is to be considered as an equal, the bidder shall submit shops drawings and calculations that are signed and sealed by a Structural Engineer Licensed in the State of Illinois. An alternate structure will not be considered an equal, if the structure requires any redesign of the plans. Shop drawings for the precast concrete structure shall be submitted according to Article 1042.03(b) and Article 105.04 of the Standard Specifications.

During construction, the Contractor shall be responsible for diverting the water from the construction area using a method meeting the approval of the Engineer. The cost of diverting the water shall be considered and included in the contract unit price bid for the drainage structure being constructed with no additional compensation being allowed.

The box structure shall be installed on a reinforced cast-in-place concrete base, above an aggregate base and suitably stable soils as detailed in the plans. Contractor shall obtain a geotechnical analysis of the foundation soils, performed by a licensed geotechnical engineer prior to construction of the drainage structure.

This work will be paid for at the contract unit price per EACH for DRAINAGE STRUCTURE 14'x5' (SPECIAL), which shall include all excavation, backfill, equipment, labor and materials required for complete installation of the drainage structure. The cost for the geotechnical analysis and all bedding materials shall be considered incidental to the pay item for the DRAINAGE STRUCTURE 14'x5' (SPECIAL).

CONCRETE PAD AND TOE WALL

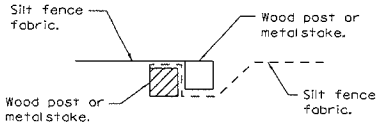
This work shall consist of furnishing and installing a cast-in-place concrete pad and toe wall for the 54" RCP flared end sections. The concrete pad and toe wall shall be Class SI and installed as detailed in the plans, and shall be substantially constructed in accordance with Sections 353 of the Standard Specifications.

The cost of this work, including all excavation, backfill, equipment, labor and materials required for complete installation, will be paid for at the contract unit price bid per EACH for PC CONCRETE PAD AND TOE WALL FOR 54" FES.

CONCRETE THRUST BLOCK

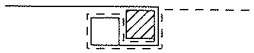
This work shall consist of furnishing and installing a concrete thrust blocking at the downstream side of the manholes as detailed in the plans. The concrete shall be Class SI.

The cost of this work, including all equipment, labor and materials required for complete installation, will be paid for at the contract unit price bid per CUBIC YARD for PC CONCRETE THRUST BLOCKING.



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as sown.

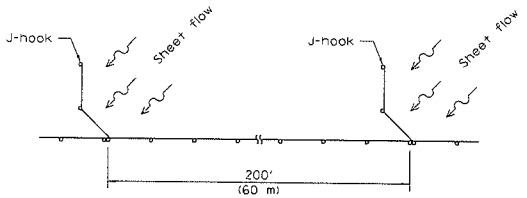
STEP 1



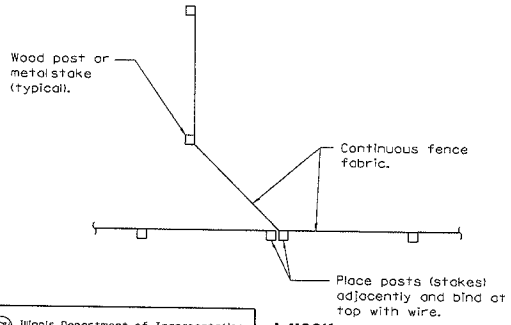
Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

STEP 2

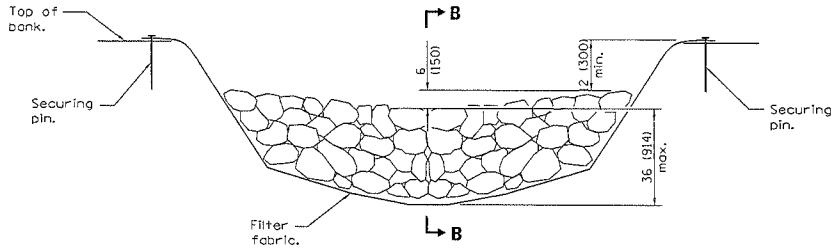
ATTACHING TWO SILT FILTER FENCES
(Not applicable for J-hooks)



SILT FILTER J-HOOK PLACEMENT

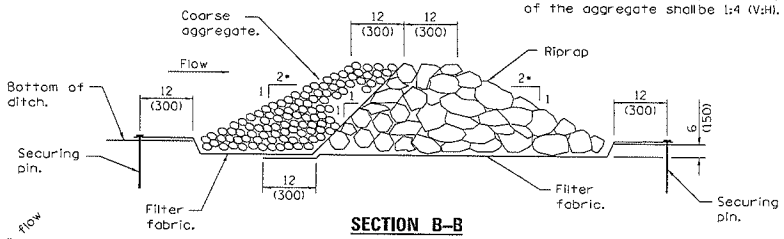


J-HOOK



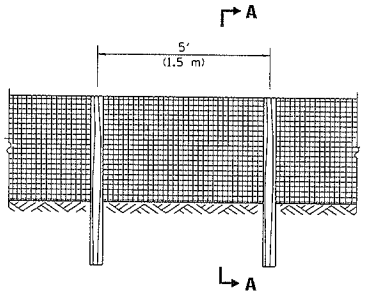
ELEVATION

- When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



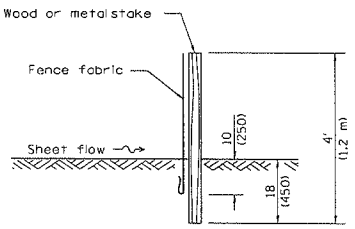
SECTION B–B

AGGREGATE DITCH CHECK

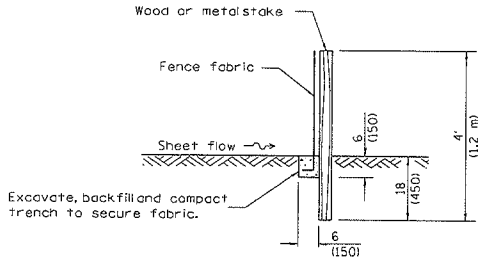


ELEVATION

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER



SLICE METHOD



TRENCH METHOD

SECTION A–A

GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED January 1, 2012
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2012
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-12	Omitted hay/straw perimeter
	barrier. Added SLICE METHOD
	to SECTION A-A.
1-1-10	Added J-hooks, added
	Two Fence attachment
	detail, mod. ditch check.

TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 1 of 2)

STANDARD 280001-06